Ryan Hui

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EXPERIENCE

Head of Computer Science Department

Tonbridge, UK

Leading the Computer Science Department in The Judd School

Sept 2019 - Jul 2021

- o Create and implement the Computer Science scheme of work at the KS3 and GCSE level
- Ensure that all students are on track to progress in Computer Science
- Plan and implement the transition from in class to remote learning
- Manage the Computer Science departments budget to purchase learning resources, teacher training courses, and equipment
- o Train Computer Science teachers

Computer Science Teacher

Tonbridge, UK

Teaching Computer Science in the Judd School

Sept 2018 - Jul 2021

- o Teach KS3 and GCSE Computer Science following the UK national curriculum
- o Run coding clubs with an emphasis on using Microbits, and computer graphics
- o Plan and run the UK Bebras challenge and the British Informatics Olympiad

Mathematics Teacher

Tonbridge, UK

Teaching Mathematics in The Judd School

Sept 2017 - Jul 2021

- o Teach KS3, GCSE and A-level mathematics following the UK national curriculum
- Run puzzle club to encourage students to practice their puzzle solving skills
- Lead yearly Junior Maths Team Challenges of which 8 students reached the final round (ie. top 50 in the country)

EDUCATION

University of Alberta	Edmonton
Bachelor of Education Major in Mathematics and Minor in General Sciences	2015-2017
McGill University	Montreal
Bachelor of Science in Computer Science and Mathematics	2010-2014
Vanier College	Montreal
DEC in Pure and Applied Sciences	2008 – 2010

PROJECTS

Automating Teacher Tasks During the Pandemic

Jan 2020 - July 2020

- Ad hoc Python scripts which scrapes www.mymaths.co.uk and integralmaths.org for pupil data and stores them into excel spreadsheets grouped by class name
- o Defensive design techniques to prevent the Python scripts from inserting invalid data
- o Python scripts to manipulate Excel spreadsheets to extract recent student data into one master spreadsheet
- A Google Script applied to a Google Sheet used to send emails to either students, parents, guardians, form tutors or other members of staff informing them of pupil progress
- O Saves 5 hour of administrative tasks per week for 10 staff members
- o Entire dataset was used to determine the effectiveness of remote learning

Stock Market Application

Jan 2021 - Present

• Used the Django framework to create a stock market application which collects stock data (eg. historical stock values, income statements to determine if there is evidence to buy or sell a particular stock.

Skills

- o Relevant Courses: Data Structures and Algorithms, Computer Systems, Databases, Abstract Algebra
- o Experience with writing Python restful applications and Django applications
- o Programming Languages: Python, C, C++, Javascript
- o Web design: HTML/CSS
- o Database Languages: Sqlite3, mySQL
- Fluent in English and professionally proficient in French

Volunteering

Study Buddy Program – M. E. Lazerte High School, Eastglen High School

Edmonton Jan 2016

o Tutoring students from grades 10 to 12 mathematics for final exam purposes.

Building Bridges - University of Alberta

Edmonton

Tutor, Mentor, and Coordinator

Jan 2016-Nov 2016

- Tutoring and mentoring students from grades 1 to 12. Detailed achievements:
 - Inspired a student to experiment with computer programming and website design. In particular, I helped a student with python programming and static site generators using Jekyll.

Mentorship Program – Aldergrove Elementary School

Edmonton Sept 2016

Mentor

 Working one-on-one or in small groups with Aldergrove students who have been identified as requiring intervention in mathematics or literacy

Students Offering Support - University of Alberta

Edmonton

Tutor April 2016 - Dec 2016

• Helping university students for their Maths final exam through a series of lectures.

Agence Ometz

Montreal

Junior Myp Mentor and Tutor

Jan 2015-Jul 2015

 Helping young children from low-income families obtain the skills they need to succeed academically and socially.